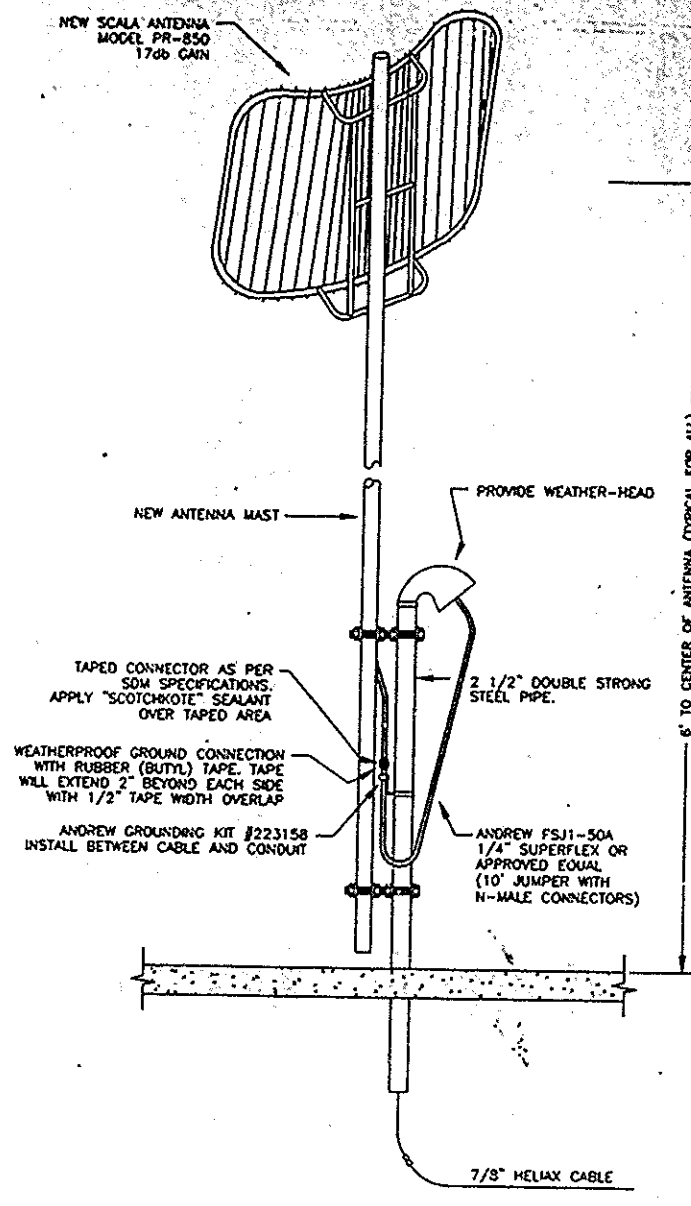


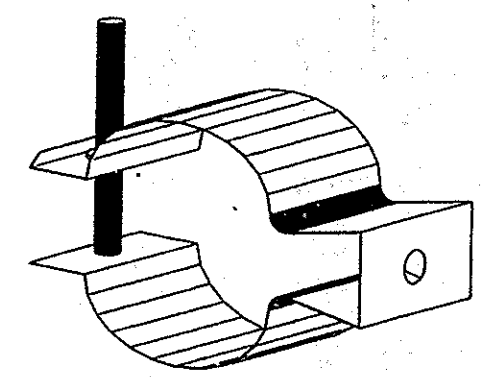
DECIBEL & SINCLAIR - ANTENNA MOUNTING DETAIL
(NOT TO SCALE)



SCALA - ANTENNA MOUNTING DETAIL
(NOT TO SCALE)

NOTES

- 1) INSTALL SIX ANTENNAS AND CABLES AS SHOWN ON NEW ROOF MOUNTS.
- 2) FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION OF ANTENNAS AND CABLES.
- 3) CABLE RUNS #2, 3, 4, 5, 6 & 7 SHALL BE 7/8" HELIAX CABLE. ANDREW INC. MODEL #LDS-50A OR APPROVED EQUAL.
- 4) CABLE RUNS #2, 3, 4, 5, 6 & 7 LEAVE TEN (10) FEET SLACK ON THE ROOF FOR CONNECTIONS TO THE NEW ANTENNAS.
- 5) SEAL ALL WALL PENETRATIONS WITH FIRESTOP SEALING COMPOUND AS APPROVED BY THE ENGINEER.
- 6) CONTRACTOR SHALL REMOVE THE EXISTING MASTS AND ANTENNAS AFTER OUTDOOR TO THE NEW SYSTEM.
- 7) FINAL CONNECTION AND ALIGNMENT OF ANTENNA BY OTHERS (P.A. RADIO SHOP).

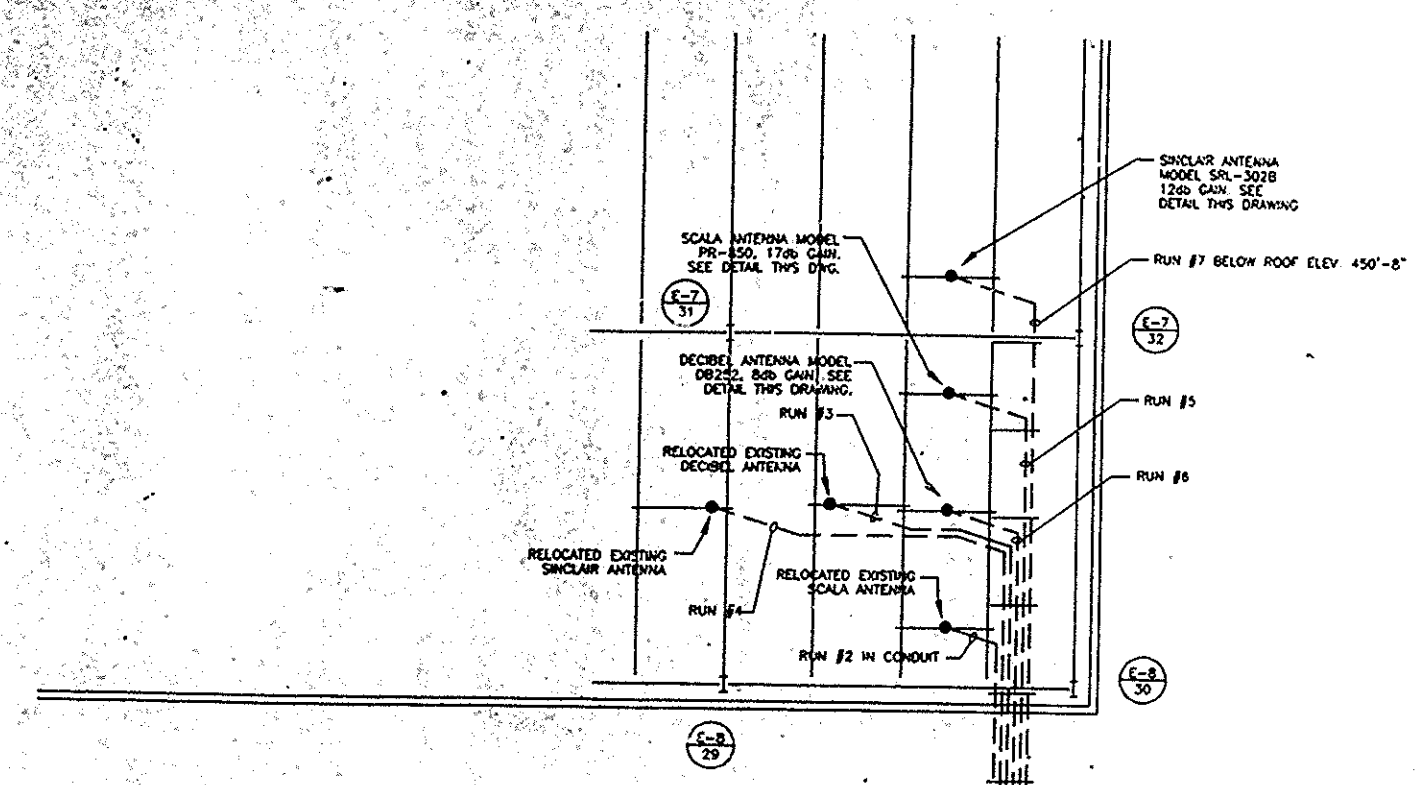


HANGER 'B'

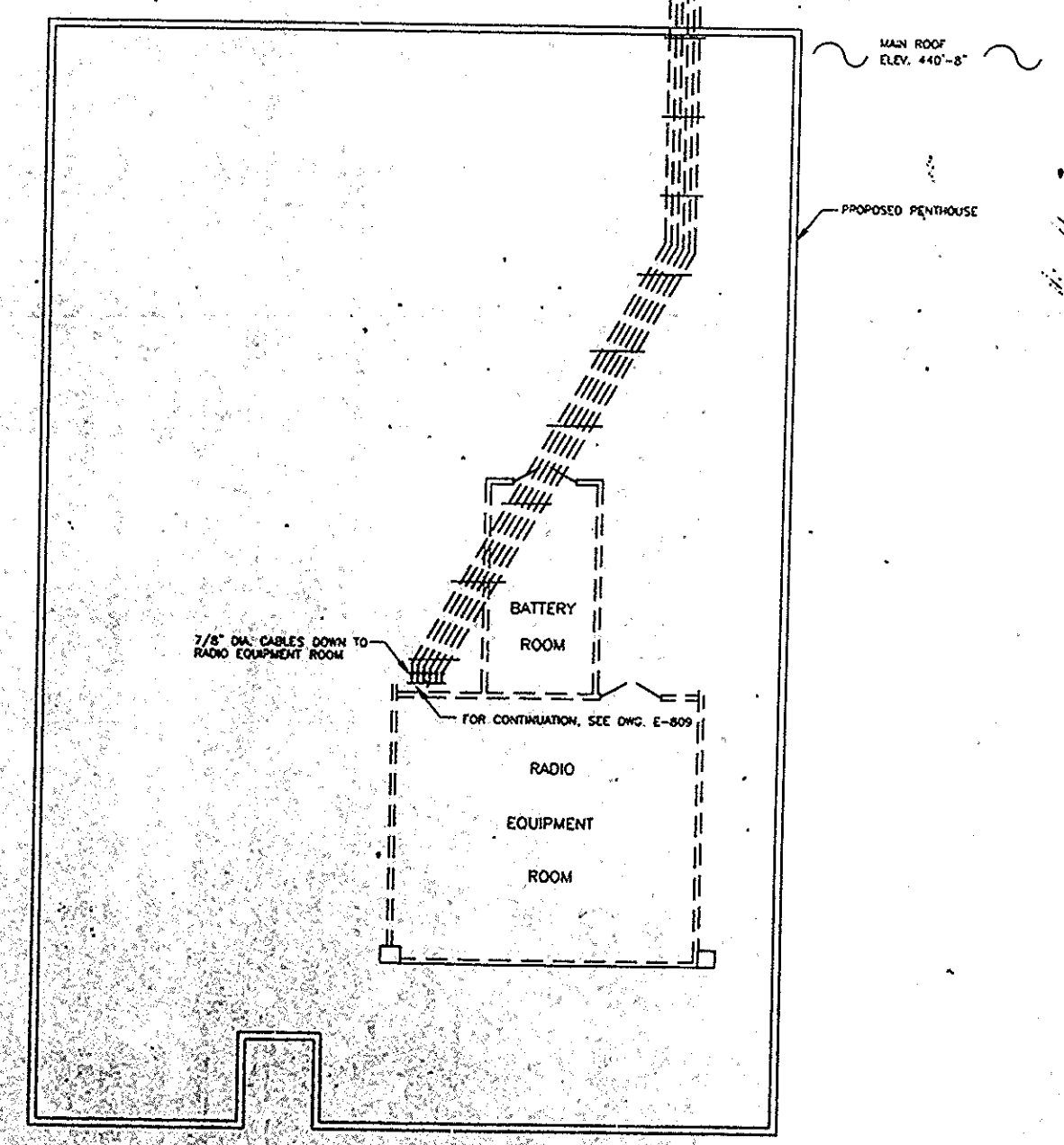
CABLE SIZE	MAXIMUM SPACING	HANGER REFERENCE	MANUFACTURER	TYPE NUMBER
7/8"	6 ft	B	ANDREW CORP. OR EQUAL	42396A-S

1. PROVIDE HELIAX CABLE HANGER SUPPORT AS PER TABLE ABOVE. SUPPORT SPACING SHALL BE MAXIMUM OF 6 FEET APART.
2. SECURE THE HANGER TO THE STEEL DECK ABOVE VIA EXPANSION ANCHORS OR EXISTING STEEL BEAMS VIA UNIVERSAL CLAMPS.
3. SECURE THE HANGER TO THE GYPSUM BOARD WALL VIA SHEETROCK SCREWS OR UNISTRUT FOR MULTIPLE CABLES.

MOUNTING DETAIL FOR HELIAX CABLE
(NTS)



FIELD VERIFY THE ANTENNA LOCATIONS ON THE ROOF TO BE CLEAR OF DUCTS OR OTHER EQUIPMENT BELOW THE ROOF.



PARTIAL ROOF PLAN

Sheet 107 of 110
THE PORT AUTHORITY
OF NY & NJ



ORIGINAL SIGNED & SEALED BY
N.Y. P.E.
Ram Communications Consultants, Inc.
10 Woodbridge Center Drive
Woodbridge, NJ 07095
(908) 636-6970 fax (908) 636-7260

I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF ONE OF THE CONTRACT DOCUMENTS IN THE FORM IN WHICH SAID DOCUMENTS EXISTED AT THE TIME THE SAID CONTRACT WAS EXECUTED BY THE PARTIES.
DATE 4/16/98 *William A. Kahan* SPECIAL AGENT
DATE 4/10/98 *R.K. Young* ENGINEER OF RECORD

No.	Date	Revision	Approved

The World Trade Center

STANDBY POWER
5-WORLD TRADE CENTER COMMUNICATIONS

PARTIAL ROOF PLAN
ANTENNA LOCATION

This drawing is subject to conditions in contract. All dimensions, sizes, quantities and methods herein are reserved to Port Authority and may not be used without its written consent.

LP: R.M. S.C.
Designed by: Drawn by: Checked by:
Date: Scale: AS NOTED
Contract Number: Drawing Number:
WTC-945.071 **E-810**